VACUUMSCHMELZE	SPECIFICATION		ltem no	.: т	60404-N	4646-X161
K-No.: 25256 50 A Current Sensor Module for 5V-Spply Voltage For electronic current measurement: DC, AC, pulsed, mixed, with a galvanic isolation between primary circuit (high power) and secondary circuit (electronic circuit)						
Customer Stand	lard type	Customers Part	no.:		Page '	1 of 2
Description Closed loop (compe Current Sensor with field probe Printed circuit board Casing and materia	Initial type Characteristics ensation) magnetic I mounting Is UL-listed Very low offset Wide frequency Compact design Reduced offset	acy current ature dependency and o esis of offset current ime bandwidth	App Main appli offset	lications lly used for stat cations: AC variable sp drives Static convert Battery suppli Switched Mod Power Supplie Uninterruptible	ionary operationary operationary operationary operationary operationary operation of the control	tion in industrial nd servo motor otor drives plies (SMPS) applications lies (UPS)
Electrical data – Ratings		min.	typ.	max.	Einheit	
I _{PN}	Primary nominal r.m.s. curren	t		50		A
V _{out} V _{out} V _{Ref} K _N	Output voltage @ I _P Output voltage @ I _P =0, T _A =25 Reference voltage external Reference voltage internal Turns ratio	°C	0	V _{Ref} ± V _{Ref} ± 2.5 ± 0 1 : 100	(0.625*I _P /I _P 0.0025 4 0.005 00	N) V V V V
Accuracy – Dynamic performance data						
			min.	typ.	max.	Unit
I _{P,max}	Max. measuring range		±172			
Х	Accuracy @ I _{PN} , T _A = 25°C				1	%
εL	Linearity				0.1	%
V _{out} -2,5V Offset voltage @ I _P =0, T _A = 25°C				±2,5	mV	
$\Delta V_{out}/2,5V/\Delta T$ Temperature drift of V_{out} @ I _P =0, T _A = -4085°C			3	10	ppm/K	
t _r Response time @ 80% von I _{PN}			1		μs	
Δt (I _{P,max}) Delay time at di/dt = 100 A/µs		DO 400	1		μs	
General data						
Т	Ambient operating temperature	-ρ	-40	typ.	+85	°C
Te	Ambient storage temperature	0	-40		+85	0°C
m	Mass		10	18		a
Vc	Supply voltage		4.75	5	5.25	V
	Current consumption		-	16		mA
Constructed and manufactored and tested in accordance with EN 61800-5-1 (Primary to Secondary)						
Reinforced insulation, Insulation material group 1, Pollution degree 2						
S _{clear}	Clearance (component without	solder pad)	12			mm
S _{creep}	Creepage (component without s	older pad)	12 DMC		600	mm
V _{Sys}	Working voltage (tabel 7 av	category 3	RIVI5		000	V
overvoltage category 2		RMS		1000	V	
U _{PD} Rated discharge voltage		peak value		1225	V	
Max. potential difference acc to UL 508			RMS		600	V
Maximal continuous and peak currents at defined temperatures						
T ₁ 50 °C 70 °C 85 °C 105 °C						
IP 150	A 110 A 100 A 50 A					
Date Name Issue Amendment 19.06.13 KRe 81 Mechanical outline: marking with LIL-sign and max potential difference added CN 650						
05.11.12 Le 81 Insignificant: Date changed.						
Hrsg.: KB-E	Bearb: Le	KB-PM IA: KRe.				freig.: HS released
	uesigner	спеск	1			

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